Emil R Unanue

List of Publications by Year
in descending order

77 papers	7,713 citations	81839 39 h-index	82499 72 g-index
80 all docs	80 docs citations	80 times ranked	10098 citing authors

#	Article	IF	Citations
1	Embryonic and Adult-Derived Resident Cardiac Macrophages Are Maintained through Distinct Mechanisms at Steady State and during Inflammation. Immunity, 2014, 40, 91-104.	6.6	1,120
2	TREM2 Maintains Microglial Metabolic Fitness in Alzheimerâ€™s Disease. Cell, 2017, 170, 649-663.e13.	13.5	741
3	MHC-II neoantigens shape tumour immunity and response to immunotherapy. Nature, 2019, 574, 696-701.	13.7	563
4	Quantitation of antigen-presenting cell MHC class II/peptide complexes necessary for T-cell stimulation. Nature, 1990, 346, 574-576.	13.7	468
5	Natural Immunity: A T-Cell-Independent Pathway of Macrophage Activation, Defined in the scid Mouse. Immunological Reviews, 1991, 124, 5-24.	2.8	322
6	Identification of the T-cell and Ia contact residues of a T-cell antigenic epitope. Nature, 1987, 327, 713-715.	13.7	312
7	TREM2 Modulation Remodels the Tumor Myeloid Landscape Enhancing Anti-PD-1 Immunotherapy. Cell, 2020, 182, 886-900.e17.	13.5	309
8	The pancreas anatomy conditions the origin and properties of resident macrophages. Journal of Experimental Medicine, 2015, 212, 1497-1512.	4.2	235
9	Early, transient depletion of plasmacytoid dendritic cells ameliorates autoimmunity in a lupus model. Journal of Experimental Medicine, 2014, 211, 1977-1991.	4.2	229
10	Variations in MHC Class II Antigen Processing and Presentation in Health and Disease. Annual Review of Immunology, 2016, 34, 265-297.	9.5	218
11	Structural Basis of Peptide Binding and Presentation by the Type I Diabetes-Associated MHC Class II Molecule of NOD Mice. Immunity, 2000, 12, 699-710.	6.6	174
12	Peptides determine the lifespan of MHC class II molecules in the antigen-presenting cell. Nature, 1994, 371, 250-252.	13.7	163
13	Unique autoreactive T cells recognize insulin peptides generated within the islets of Langerhans in autoimmune diabetes. Nature Immunology, 2010, 11, 350-354.	7.0	156
14	T-Cell Recognition of Lysozyme: The Biochemical Basis of Presentation. Immunological Reviews, 1987, 98, 171-187.	2.8	134
15	A Minor Subset of Batf3-Dependent Antigen-Presenting Cells in Islets of Langerhans Is Essential for the Development of Autoimmune Diabetes. Immunity, 2014, 41, 657-669.	6.6	124
16	Register shifting of an insulin peptideâ€“MHC complex allows diabetogenic T cells to escape thymic deletion. Journal of Experimental Medicine, 2011, 208, 2375-2383.	4.2	121
17	Natural peptides selected by diabetogenic DQ8 and murine I-Ag7 molecules show common sequence specificity. Journal of Clinical Investigation, 2005, 115, 2268-2276.	3.9	121
18	Resident macrophages of pancreatic islets have a seminal role in the initiation of autoimmune diabetes of NOD mice. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10418-E10427.	3.3	119

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19	Dendritic cells in islets of Langerhans constitutively present Î² cell-derived peptides bound to their class II MHC molecules. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6121-6126.	3.3	114
20	Cellular and molecular events in the localization of diabetogenic T cells to islets of Langerhans. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1561-1566.	3.3	102
21	Defining the Transcriptional and Cellular Landscape of Type 1 Diabetes in the NOD Mouse. PLoS ONE, 2013, 8, e59701.	1.1	101
22	The Insulin-Specific T Cells of Nonobese Diabetic Mice Recognize a Weak MHC-Binding Segment in More Than One Form. Journal of Immunology, 2007, 178, 6051-6057.	0.4	91
23	Antigen presentation ¹. FASEB Journal, 1989, 3, 2496-2502.	0.2	90
24	The islet-resident macrophage is in an inflammatory state and senses microbial products in blood. Journal of Experimental Medicine, 2017, 214, 2369-2385.	4.2	89
25	Perspective on antigen processing and presentation. Immunological Reviews, 2002, 185, 86-102.	2.8	87
26	Beta cells transfer vesicles containing insulin to phagocytes for presentation to T cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5496-502.	3.3	85
27	Pancreatic islets communicate with lymphoid tissues via exocytosis of insulin peptides. Nature, 2018, 560, 107-111.	13.7	81
28	Single-cell RNA sequencing of murine islets shows high cellular complexity at all stages of autoimmune diabetes. Journal of Experimental Medicine, 2020, 217, .	4.2	78
29	Unconventional recognition of peptides by T cells and the implications for autoimmunity. Nature Reviews Immunology, 2012, 12, 721-728.	10.6	76
30	Entry of diabetogenic T cells into islets induces changes that lead to amplification of the cellular response. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1567-1572.	3.3	73
31	In APCs, the Autologous Peptides Selected by the Diabetogenic I-Ag7 Molecule Are Unique and Determined by the Amino Acid Changes in the P9 Pocket. Journal of Immunology, 2002, 168, 1235-1243.	0.4	72
32	Mechanisms of Antigen Processing. Immunological Reviews, 1988, 106, 77-92.	2.8	66
33	The MHC-II peptidome of pancreatic islets identifies key features of autoimmune peptides. Nature Immunology, 2020, 21, 455-463.	7.0	53
34	Absence of Lymph Nodes in NOD Mice Treated With Lymphotoxin-Â Receptor Immunoglobulin Protects From Diabetes. Diabetes, 2004, 53, 3115-3119.	0.3	50
35	Antigen Presentation in the Autoimmune Diabetes of the NOD Mouse. Annual Review of Immunology, 2014, 32, 579-608.	9.5	49
36	The resident macrophages in murine pancreatic islets are constantly probing their local environment, capturing beta cell granules and blood particles. Diabetologia, 2018, 61, 1374-1383.	2.9	48

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37	Weak Proinsulin Peptideâ€"Major Histocompatibility Complexes Are Targeted in Autoimmune Diabetes in Mice. Diabetes, 2008, 57, 1852-1860.	0.3	47
38	The central role of antigen presentation in islets of Langerhans in autoimmune diabetes. Current Opinion in Immunology, 2014, 26, 32-40.	2.4	46
39	Pathogenic CD4+ T cells recognizing an unstable peptide of insulin are directly recruited into islets bypassing local lymph nodes. Journal of Experimental Medicine, 2013, 210, 2403-2414.	4.2	42
40	Mechanisms and consequences of peptide selection by the I-Ak class II molecule. Immunological Reviews, 1999, 172, 209-228.	2.8	39
41	Class-switched anti-insulin antibodies originate from unconventional antigen presentation in multiple lymphoid sites. Journal of Experimental Medicine, 2016, 213, 967-978.	4.2	39
42	Position Î²57 of I-A ^{g7} controls early anti-insulin responses in NOD mice, linking an MHC susceptibility allele to type 1 diabetes onset. Science Immunology, 2019, 4, .	5.6	37
43	Low-temperature inhibition of antigen processing and iron uptake from transferrin: Deficits in endosome functions at 18 Â°C. European Journal of Immunology, 1990, 20, 323-329.	1.6	36
44	The role of islet antigen presenting cells and the presentation of insulin in the initiation of autoimmune diabetes in the <scp>NOD</scp> mouse. Immunological Reviews, 2016, 272, 183-201.	2.8	32
45	Cytocidal macrophages in symbiosis with CD4 and CD8 T cells cause acute diabetes following checkpoint blockade of PD-1 in NOD mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31319-31330.	3.3	29
46	Ito Cells, Stellate Cells, and Myofibroblasts: New Actors in Antigen Presentation. Immunity, 2007, 26, 9-10.	6.6	26
47	Macrophages and dendritic cells in islets of Langerhans in diabetic autoimmunity: a lesson on cell interactions in a mini-organ. Current Opinion in Immunology, 2016, 43, 54-59.	2.4	26
48	Deamidation of Asparagine in a Major Histocompatibility Complexâ€"Bound Peptide Affects T Cell Recognition but Does Not Explain Type B Reactivity. Journal of Experimental Medicine, 2001, 194, 1165-1170.	4.2	24
49	Prediction of HLA-DQ8 Î² cell peptidome using a computational program and its relationship to autoreactive T cells. International Immunology, 2009, 21, 705-713.	1.8	24
50	Antigen presentation events during the initiation of autoimmune diabetes in the NOD mouse. Journal of Autoimmunity, 2016, 71, 19-25.	3.0	21
51	Type I and II Interferon Receptors Differentially Regulate Type 1 Diabetes Susceptibility in Male Versus Female NOD Mice. Diabetes, 2018, 67, 1830-1835.	0.3	20
52	The level of peptide-MHC complex determines the susceptibility to autoimmune diabetes: studies in HEL transgenic mice. European Journal of Immunology, 2001, 31, 3453-3459.	1.6	18
53	ZnT8-Reactive T Cells Are Weakly Pathogenic in NOD Mice but Can Participate in Diabetes Under Inflammatory Conditions. Diabetes, 2014, 63, 3438-3448.	0.3	18
54	Perspectives on anti-CD47 antibody treatment for experimental cancer. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10886-10887.	3.3	15

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55	Altered Peptide Ligands Make Their Entry. Journal of Immunology, 2011, 186, 7-8.	0.4	14
56	<i>Listeria monocytogenes</i> induces an interferonâ€enhanced activation of the integrated stress response that is detrimental for resolution of infection in mice. European Journal of Immunology, 2017, 47, 830-840.	1.6	14
57	Unique features in the presentation of insulin epitopes in autoimmune diabetes: an update. Current Opinion in Immunology, 2017, 46, 30-37.	2.4	14
58	The Immunoreactive Platform of the Pancreatic Islets Influences the Development of Autoreactivity. Diabetes, 2019, 68, 1544-1551.	0.3	13
59	From antigen processing to peptide-MHC binding. Nature Immunology, 2006, 7, 1277-1279.	7.0	12
60	Endoplasmic Reticulum: An Interface Between the Immune System and Metabolism. Diabetes, 2014, 63, 48-49.	0.3	11
61	Macrophages in Endocrine Glands, with Emphasis on Pancreatic Islets. Microbiology Spectrum, 2016, 4, .	1.2	9
62	Antigen recognition in autoimmune diabetes: a novel pathway underlying disease initiation. Precision Clinical Medicine, 2018, 1, 102-110.	1.3	9
63	Blood leukocytes recapitulate diabetogenic peptideâ€"MHC-II complexes displayed in the pancreatic islets. Journal of Experimental Medicine, 2021, 218, .	4.2	8
64	Studies with Listeria Monocytogenes Lead the Way. Advances in Immunology, 2012, 113, 1-5.	1.1	6
65	Intracellular Pathogens and Antigen Presentationâ€"New Challenges with Legionella Pneumophila. Immunity, 2003, 18, 722-724.	6.6	5
66	Antigen Presentation: Lysoyme, Autoimmune Diabetes, and Listeria What Do They Have in Common?. Immunologic Research, 2005, 32, 267-292.	1.3	5
67	Viral Infections and Nonspecific Protection â€" Good or Bad?. New England Journal of Medicine, 2007, 357, 1345-1346.	13.9	5
68	Chromogranin A Deficiency Confers Protection From Autoimmune Diabetes via Multiple Mechanisms. Diabetes, 2021, 70, 2860-2870.	0.3	5
69	Antigen processing. Current Opinion in Immunology, 2014, 26, 138-139.	2.4	3
70	The Secrets of the Class II MHC Peptidome Start To Be Revealed. Journal of Immunology, 2016, 196, 939-940.	0.4	3
71	Innate Immunity in Bacterial Infections. , 0, , 93-103.		2
72	Ita Askonas and her influence in the field of antigen presentation. Current Opinion in Immunology, 2014, 26, 111-114.	2.4	1

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73	Some Old and Some New Findings on Antigen Processing and Presentation. , 2006, , 1-23.		0
74	Starting in Immunology by Way of Immunopathology. Annual Review of Pathology: Mechanisms of Disease, 2011, 6, 1-18.	9.6	0
75	Macrophages in Endocrine Glands, with Emphasis on Pancreatic Islets. , 2017, , 825-831.		0
76	Intracellular Release of Granzyme B Drives a Rapid Listeriolysin Oâ€induced T Cell Apoptosis. FASEB Journal, 2008, 22, 860.7.	0.2	0
77	Islets of Langerhans are the portal of entry for activated diabetogenic T cells mediated by resident islet dendritic cells. FASEB Journal, 2008, 22, 666.2.	0.2	0